

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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TITLE : ELECTRICALLY CONDUCTIVE CONJUGATE FIBER

ABSTRACT : PURPOSE: To obtain conjugate fibers, by sealing and wrapping a core component consisting of an electrically conductive polymer in a sheath component consisting of an electrically nonconductive polymer containing ferroelectric powder in a specific proportion, having improved antistatic property and capable of imparting antistatic properties to textile products by blending in a trace amount therein.

CONSTITUTION: A core component obtained by blending (A) electrically conductive powder, e.g. carbon black, etc., with (B) a thermoplastic polymer and a sheath component prepared by blending (C) a fiber-forming electrically nonconductive polymer with (D) ferroelectric powder, e.g. barium titanate, etc., in an amount of 0.01~10wt% based on the sheath component are melt spun in, e.g. a concentric sheath.core conjugate structure, to afford the aimed conjugate fibers. The component (A) in the core component is blended in an amount of 40~300pts.wt. based on 100pts.wt. component (B) and the conjugate ratio of the core component is preferably 5~50%.

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